

# AQUACULTURE PRODUCTION

Report

2005-06



Title: Aquaculture production report 2005–2006

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Disclaimer

Information presented in this publication is presented as a general representation of aquaculture production in NSW for the reporting period 1 July 2005 to 30 June 2006. All care has been taken to ensure the information is correct at the time of publication. NSW Department of Primary Industries does not guarantee the accuracy of the information provided by the permit holders.

This information should not be used in the development of business plans, investment proposals or other applications unless professional advice is sought.

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## Minister's message

It is my great pleasure to present the NSW Government's Aquaculture Production report for the 2005-2006 financial year.

The NSW aquaculture sector continues as a major contributor to seafood production in NSW. The industry provides valuable local jobs, tourism opportunities and income for rural and regional communities, and we are committed to encouraging the further development of industry into the future.

Edible oyster production decreased slightly in value in 2005-2006, mostly due to decreased production from the Hawkesbury River area following the severe QX oyster disease outbreak. Oyster farmers however have worked diligently to recover from the impact of the disease outbreak and are farming once again with new fast-growing QX disease resistant oysters developed by NSW Department of Primary Industries' scientists. Sydney rock oyster farming remains the most valuable sector in the NSW seafood industry. There is tremendous scope to increase output through the introduction of hatchery reared oyster spat and the use of recyclable plastic materials instead of traditional timber oyster growing infrastructure.

Significant volumes of Pacific and Angasi (flat) oysters were also produced in the 2005-2006 financial year.

The land based fish farming sector remained relatively stable this financial year as freshwater fish producers were feeling the impact of the drought. There was a positive increase in silver perch production but the hatchery sector suffered with reduced sales of fingerling native fish for stocking farm dams.

The prawn farming sector is still under pressure due to the high volume of cheap imported prawns. Prawn farm stocking density was down this financial year leading to a reduction in the overall tonnage produced.

I would like to thank all aquaculture farm operators who contributed to this report, as their on-going cooperation is invaluable. I look forward to watching the NSW aquaculture industry continue to thrive in the future.



A handwritten signature in black ink, appearing to read 'Ian Macdonald'.

Ian Macdonald, MLC  
NSW Minister for Primary Industries

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# Land Based Production

## Table 1: Snapshot of Aquaculture Production for 2005/2006

Grouping	Common Name	Scientific Name	No. Farms with Permits for this Species	No. Farms Producing this Species	Commercial Production Area (ha)	Production (kg)	Average Price per kg (\$)	Total Value (\$)	
<b>Crustaceans</b>	black tiger prawn	<i>Penaeus monodon</i>	12	5	117.8	241,043	14.05	\$3,387,109	
	redclaw	<i>Cherax quadricarinatus</i>	16	N/a	0.8	100	15.00	\$1,500	
	yabby	<i>Cherax destructor</i>	120	22	64.64	18,500	11.55	\$213,736	
<b>Freshwater fish</b>	barramundi	<i>Lates calcarifer</i>	10	5	0.45	103,591	11.95	\$1,237,502	
	brown trout	<i>Salmo trutta</i>	12	N/a	0.5	300	10.82	\$3,245	
	eel-long finned	<i>Anguilla reinhardtii</i>	25	N/a	4.77	8,054	11.36	\$91,510	
	golden perch	<i>Macquaria ambigua</i>	107	3	0.78	2,083	15.86	\$33,050	
	Murray cod	<i>Maccullochella peelii</i>	66	6	2.03	13,036	18.11	\$236,030	
	rainbow trout	<i>Oncorhynchus mykiss</i>	29	8	9.94	195,883	8.88	\$1,738,970	
	silver perch	<i>Bidyanus bidyanus</i>	121	29	54.92	300,672	9.21	\$2,769,981	
	sleepy cod	<i>Oxyeleotris lineolatus</i>	5	N/a	0.03	1,000	23.00	\$23,000	
	<b>Marine fish</b>	mullet	<i>Mugil cephalus</i>	8	N/a	0.05	10,480	1.07	\$11,256
		mulloway	<i>Argyrosomus japonicus</i>	20	N/a	2.88	13,016	7.89	\$102,778
sand whiting		<i>Sillago ciliata</i>	10	N/a	0.75	3,000	1.00	\$3,000	
silver bream		<i>Acanthopagrus australis</i>	13	N/a	1.50	846	10.85	\$9,182	
<b>Sub total</b>								\$9,861,849	
<b>Hatchery</b>	Hatchery (species)	(see hatchery production table)						\$1,517,531	
<b>Mollusc - oysters</b>	Sydney rock oyster	<i>Saccostrea glomerata</i> (see oyster production tables)						\$32,589,877	
	Pacific oyster	<i>Crassostrea gigas</i> (see oyster production tables)						\$1,402,922	
	flat oysters	<i>Ostrea Angasi</i>						\$101,288	
	oyster spat							\$1,894,530	
<b>Mollusc - other</b>	blue mussel	<i>Mytilus galloprovincialis</i>	N/a	N/a	19.02	34,117	6.05	\$206,535	
<b>*Other</b>								\$436,831	
<b>Total \$ Value</b>								<b>\$48,011,363</b>	

N/a = not available due to confidentiality e.g. fewer than five permits.

\*Other = Due to confidentiality these figures are included under this category. Species include pearl oysters *Pinctada imbricata*, tube worms *Diopatra dentata*, and triploid Pacific oysters *Crassostrea gigas*.

Note that the "Average Price per kg (\$)" has been rounded to nearest cent.

**Table 2: Fish, Crustacean and Mollusc Production 2005/2006**

Grouping	Common Name	Scientific Name	No. Farms with Permits for this Species	No. Farms Producing this Species	Commercial Production Area (ha)	Production (kg)	Average Price per kg (\$)	Total Value (\$)	
<b>Crustaceans</b>	black tiger prawn	<i>Penaeus monodon</i>	12	5	117.8	241,043	14.05	\$3,387,109	
	redclaw	<i>Cherax quadricarinatus</i>	16	N/a	0.8	100	15.00	\$1,500	
	yabby	<i>Cherax destructor</i>	120	22	64.64	18,500	11.55	\$213,736	
<b>Freshwater fish</b>	barramundi	<i>Lates calcarifer</i>	10	5	0.45	103,591	11.95	\$1,237,502	
	brown trout	<i>Salmo trutta</i>	12	N/a	0.5	300	10.82	\$3,245	
	eel-long finned	<i>Anguilla reinhardtii</i>	25	N/a	4.77	8,054	11.36	\$91,510	
	golden perch	<i>Macquaria ambigua</i>	107	3	0.78	2,083	15.86	\$33,050	
	Murray cod	<i>Maccullochella peelii</i>	66	6	2.03	13,036	18.11	\$236,030	
	rainbow trout	<i>Oncorhynchus mykiss</i>	29	8	9.94	195,883	8.88	\$1,738,970	
	silver perch	<i>Bidyanus bidyanus</i>	121	29	54.92	300,672	9.21	\$2,769,981	
	sleepy cod	<i>Oxyeleotris lineolatus</i>	5	N/a	0.03	1,000	23.00	\$23,000	
	<b>Marine fish</b>	mullet	<i>Mugil cephalus</i>	8	N/a	0.05	10,480	1.07	\$11,256
		mulloway	<i>Argyrosomus japonicus</i>	20	N/a	2.88	13,016	7.89	\$102,778
sand whiting		<i>Sillago ciliata</i>	10	N/a	0.75	3,000	1.00	\$3,000	
silver bream		<i>Acanthopagrus australis</i>	13	N/a	1.50	846	10.85	\$9,182	
<b>Molluscs</b>	blue mussel	<i>Mytilus galloprovincialis</i>	N/a	N/a	19.02	34,117	6.05	\$206,535	
<b>*Other</b>								\$436,831	
<b>Total \$ Value</b>								<b>\$10,505,215</b>	

N/a = not available due to confidentiality e.g. fewer than five permits

\*Other = Due to confidentiality these figures are included under this category. Species include pearl oysters *Pinctada imbricata*, tube worm *Diopatra dentata*, and triploid Pacific Oysters *Crassostrea gigas*.

Note that the "Average Price per kg (\$)" has been rounded to the nearest cent.

**Table 3: Commercial Hatchery Production 2005/2006**

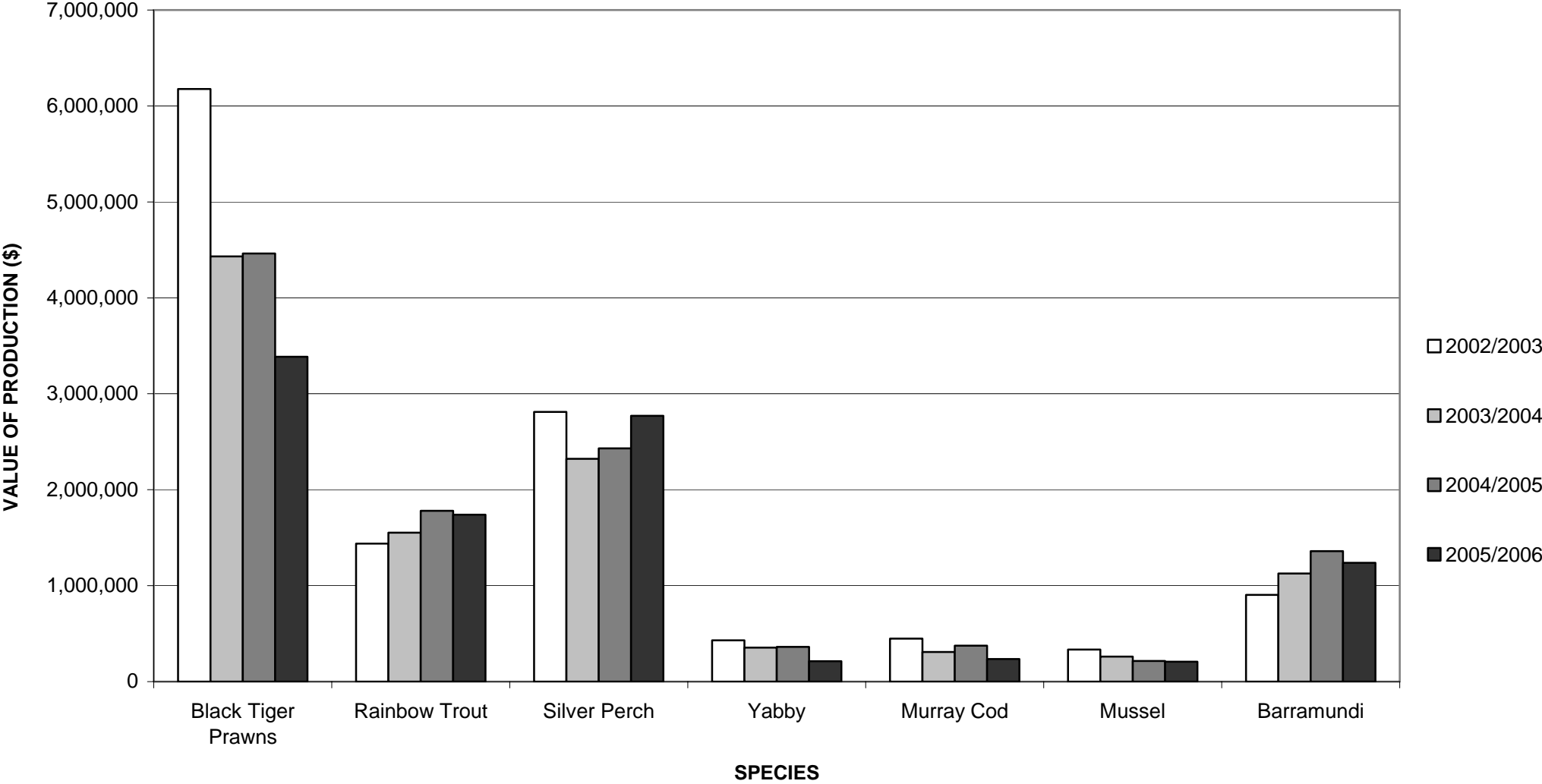
Grouping	Common Name	Scientific Name	Number of Permits	Hatcheries Producing	Product Description	Quantity	Average Price per Unit (\$)	Total Value (\$)
<b>Crustaceans</b>	black tiger prawn	<i>Penaeus monodon</i>	7	N/a	Prawn post-larvae (per 1,000)	7,500	0.01	\$60,000
	yabby	<i>Cherax destructor</i>	N/a	N/a	Juveniles	42,700	0.34	\$14,660
<b>Freshwater fish</b>	aquarium species	<i>Various species</i>	16	N/a	Fish fingerlings (per individual)	255,138	0.85	\$217,900
	Australian bass	<i>Macquaria novemaculeata</i>	16	N/a	Fish fingerlings (per individual)	112,100	0.46	\$51,160
	eel tailed catfish	<i>Tandanus tandanus</i>	24	N/a	Fish fingerlings (per individual)	25,421	1.22	\$31,101
	golden perch	<i>Macquaria ambigua</i>	42	6	Fish fingerlings (per individual)	1,023,655	0.24	\$244,856
	goldfish	<i>Carassius auratus</i>	9	N/a	Fish fingerlings (per individual)	98,500	0.67	\$66,870
	koi carp	<i>Cyprinus carpio</i>	8	6	Fish fingerlings (per individual)	231,500	0.62	\$143,800
	Murray cod	<i>Maccullochella peelii</i>	22	7	Fish fingerlings (per individual)	730,728	0.61	\$446,478
					Fish fry (per individual)	216,000	0.19	\$41,000
	rainbow trout	<i>Oncorhynchus mykiss</i>	12	6	Fish fingerlings (per individual)	101,400	0.48	\$48,791
	silver perch	<i>Bidyanus bidyanus</i>	45	12	Fish fingerlings (per individual)	637,295	0.19	\$123,585
					Fish fry (per individual)	2,000	0.10	\$200
<b>Marine fish</b>	mulloway	<i>Argyrosomus japonicus</i>	8	N/a	Fish fingerlings (per individual)	21,070	0.96	\$20,200
<b>*Other</b>								\$6,930
<b>Total Value</b>								<b>\$1,517,531</b>

N/a = not available due to confidentiality e.g. fewer than five permits

\*Other = Due to confidentiality these figures are included under this category. Species include silver bream *Acanthopagrus australis*.

Note that the "Average Price per Unit (\$)" has been rounded to the nearest cent.

**Figure A: Comparative graph of non-oyster aquaculture production**



# Oyster Production

**Table 4: Sydney Rock Oyster Production – 2002/2003, 2003/2004, 2004/2005 and 2005/2006 by Estuary**

Estuary Name	Plate Grade Dozens				Bistro Grade Dozens				Bottle Grade Dozens				Total Dozens			
	02/03	03/04	04/05	05/06	02/03	03/04	04/05	05/06	02/03	03/04	04/05	05/06	02/03	03/04	04/05	05/06
Tweed River	N/a	N/a	N/a	29,433	N/a	N/a	N/a	24,714	N/a	N/a	N/a	6,866	N/a	N/a	N/a	61,013
Nambucca River	15,616	37,042	21,997	44,582	36,422	41,781	23,030	44,075	9,410	12,908	19,630	19,235	61,448	91,731	64,657	107,892
Macleay River	27,589	24,028	20,392	39,342	38,812	47,396	35,502	58,614	116,116	82,741	75,104	78,467	182,517	154,165	130,998	176,423
Hastings River	60,787	46,990	50,570	65,248	116,491	96,875	116,535	97,224	200,847	219,407	133,150	135,296	378,125	363,272	300,255	297,768
Camden Haven	70,041	72,352	75,400	110,511	39,450	38,629	60,462	71,667	73,530	85,246	129,285	129,995	183,021	196,227	265,147	312,173
Manning River	84,024	80,535	77,957	80,873	79,578	53,129	62,324	79,605	77,017	72,683	107,670	172,607	240,619	206,347	247,951	333,085
Wallis Lake	462,020	555,432	490,654	403,249	630,500	591,663	633,423	583,373	1,245,191	1,286,303	1,098,017	1,026,736	2,337,711	2,433,398	2,222,094	2,013,358
Port Stephens	239,718	271,171	249,250	248,028	233,728	273,721	206,823	196,873	229,505	248,988	233,018	271,708	702,951	793,880	689,091	716,609
Brisbane Water	128,312	146,500	146,435	108,261	132,088	112,404	126,799	122,770	261,566	356,497	246,526	260,593	521,966	615,401	519,760	491,624
Hawkesbury River	230,255	151,820	71,462	300	235,540	250,987	119,220	440	426,935	443,454	265,348	4,710	892,730	846,261	456,030	5,450
Shoalhaven River	14,944	18,343	24,098	12,224	12,738	9,240	13,054	13,717	52,278	58,336	3,633	8,842	79,960	85,919	40,785	34,783
Crookhaven River	35,226	26,331	27,267	34,968	30,542	28,694	36,248	40,799	44,960	48,429	58,245	54,757	110,728	103,454	121,760	130,524
Clyde River	152,254	181,133	196,422	203,277	259,143	286,408	393,392	270,543	377,676	455,139	488,153	426,335	789,073	922,680	1,077,967	900,155
Tuross Lake	6,925	5,093	9,074	12,688	27,463	26,644	33,940	28,780	21,785	36,750	30,645	30,400	56,173	68,487	73,659	71,868
Wagonga Inlet	22,650	14,900	19,980	29,628	97,886	125,543	69,906	83,551	139,145	112,570	125,511	143,509	259,681	253,013	215,397	256,688
Wapengo Lake	6,777	8,197	8,604	14,812	34,227	42,921	44,435	48,280	26,950	34,091	27,300	24,370	67,954	85,209	80,339	87,462
Merimbula Lake	151,866	129,778	106,119	62,495	57,418	107,138	43,280	63,611	42,886	40,838	42,159	73,801	252,170	277,754	191,558	199,907
Pambula River	35,331	27,625	35,062	27,600	48,355	41,197	59,940	50,117	52,695	61,430	83,524	87,082	136,381	130,252	178,526	164,799
Wonboyn River	4,251	8,738	28,001	24,356	5,913	11,393	17,875	17,067	7,180	10,043	6,552	3,617	17,344	30,174	52,428	45,040
**Others	103,174	129,442	95,859	78,515	116,844	136,054	81,422	44,921	100,320	77,145	80,737	37,436	320,338	342,641	258,018	160,872
<b>Totals</b>	<b>1,851,760</b>	<b>1,935,450</b>	<b>1,754,603</b>	<b>1,630,390</b>	<b>2,233,138</b>	<b>2,321,817</b>	<b>2,177,610</b>	<b>1,940,741</b>	<b>3,505,992</b>	<b>3,742,998</b>	<b>3,254,207</b>	<b>2,996,362</b>	<b>7,590,890</b>	<b>8,000,265</b>	<b>7,186,420</b>	<b>6,567,493</b>

\*\*Others not named for confidentiality include: Richmond River, Wooli Wooli River, Bellinger River, Hunter River, Patonga Creek, Botany Bay, Conjola River, Bermagui River & Nelson Lagoon.

N/a: Data not available for confidentiality reasons (included in others).



**Table 5: Sydney Rock Oyster Sales by Estuary and Production Method**

Estuary Name	Type of Cultivation	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value (\$)	Total Bags	Total Dozens	Total Value (\$)
Tweed River	Baskets	5	498	\$3,471	38	4,168	\$21,840	8	1,100	\$4,059	51	5,766	\$29,370
	Tray	289	28,935	\$201,677	187	20,546	\$107,661	44	5,766	\$21,277	520	55,247	\$330,615
<b>Estuary Total</b>		<b>294</b>	<b>29,433</b>	<b>\$205,148</b>	<b>225</b>	<b>24,714</b>	<b>\$129,501</b>	<b>53</b>	<b>6,866</b>	<b>\$25,336</b>	<b>572</b>	<b>61,013</b>	<b>\$359,985</b>
Nambucca River	Raft/Pontoon	333	33,335	\$232,345	331	36,364	\$190,547	82	10,637	\$39,251	746	80,336	\$462,143
	Tray	112	11,247	\$78,392	70	7,711	\$40,406	66	8,598	\$31,727	249	27,556	\$150,524
<b>Estuary Total</b>		<b>446</b>	<b>44,582</b>	<b>\$310,737</b>	<b>401</b>	<b>44,075</b>	<b>\$230,953</b>	<b>148</b>	<b>19,235</b>	<b>\$70,977</b>	<b>994</b>	<b>107,892</b>	<b>\$612,667</b>
Macleay River	Baskets	65	6,539	\$45,577	121	13,314	\$69,765	184	23,873	\$88,091	370	43,726	\$203,434
	Floating	3	335	\$2,335	11	1,195	\$6,262	7	880	\$3,247	21	2,410	\$11,844
	Tray	325	32,468	\$226,302	401	44,105	\$231,110	413	53,714	\$198,205	1,139	130,287	\$655,617
<b>Estuary Total</b>		<b>393</b>	<b>39,342</b>	<b>\$274,214</b>	<b>533</b>	<b>58,614</b>	<b>\$307,137</b>	<b>604</b>	<b>78,467</b>	<b>\$289,543</b>	<b>1,530</b>	<b>176,423</b>	<b>\$870,894</b>
Hastings River	Baskets							20	2,600	\$9,594	20	2,600	\$9,594
	Floating	3	338	\$2,356	16	1,783	\$9,343	129	16,807	\$62,018	149	18,928	\$73,717
	Long-line	3	338	\$2,356	16	1,783	\$9,343	109	14,207	\$52,424	129	16,328	\$64,123
	Raft/Pontoon	189	18,882	\$131,608	351	38,651	\$202,531	373	48,504	\$178,980	913	106,037	\$513,119
	Tray	457	45,690	\$318,459	500	55,007	\$288,237	409	53,178	\$196,227	1,366	153,875	\$802,923
<b>Estuary Total</b>		<b>652</b>	<b>65,248</b>	<b>\$454,779</b>	<b>884</b>	<b>97,224</b>	<b>\$509,454</b>	<b>1,041</b>	<b>135,296</b>	<b>\$499,242</b>	<b>2,577</b>	<b>297,768</b>	<b>\$1,463,475</b>
Camden Haven	Raft/Pontoon	776	77,550	\$540,524	512	56,300	\$295,012	860	111,800	\$412,542	2,147	245,650	\$1,248,078
	Stick	60	6,000	\$41,820	18	2,000	\$10,480	30	3,900	\$14,391	108	11,900	\$66,691
	Tray	270	26,961	\$187,918	122	13,367	\$70,043	110	14,295	\$52,749	501	54,623	\$310,710
<b>Estuary Total</b>		<b>1,105</b>	<b>110,511</b>	<b>\$770,262</b>	<b>652</b>	<b>71,667</b>	<b>\$375,535</b>	<b>1,000</b>	<b>129,995</b>	<b>\$479,682</b>	<b>2,757</b>	<b>312,173</b>	<b>\$1,625,478</b>
Manning River	Baskets	39	3,875	\$27,009	44	4,785	\$25,073	167	21,765	\$80,313	250	30,425	\$132,395
	Dredge	94	9,350	\$65,170	114	12,546	\$65,741	104	13,535	\$49,944	312	35,431	\$180,855
	Floating	39	3,900	\$27,183	2	220	\$1,153	3	325	\$1,199	44	4,445	\$29,535
	Long-line	64	6,400	\$44,608	24	2,600	\$13,624	11	1,400	\$5,166	98	10,400	\$63,398
	Raft/Pontoon				5	581	\$3,044				5	581	\$3,044
	Tray	573	57,348	\$399,716	535	58,873	\$308,495	1,043	135,582	\$500,298	2,152	251,803	\$1,208,508
<b>Estuary Total</b>		<b>809</b>	<b>80,873</b>	<b>\$563,685</b>	<b>724</b>	<b>79,605</b>	<b>\$417,130</b>	<b>1,328</b>	<b>172,607</b>	<b>\$636,920</b>	<b>2,860</b>	<b>333,085</b>	<b>\$1,617,735</b>
Wallis Lake	Baskets				6	626	\$3,280	57	7,367	\$27,184	62	7,993	\$30,464
	Long-line	1	138	\$962	0	30	\$157				2	168	\$1,119
	Stick	375	37,486	\$261,277	410	45,063	\$236,130	579	75,241	\$277,639	1,363	157,790	\$775,047
	Tray	3,656	365,625	\$2,548,406	4,888	537,654	\$2,817,307	7,263	944,128	\$3,483,832	15,807	1,847,407	\$8,849,546
<b>Estuary Total</b>		<b>4,032</b>	<b>403,249</b>	<b>\$2,810,646</b>	<b>5,303</b>	<b>583,373</b>	<b>\$3,056,875</b>	<b>7,898</b>	<b>1,026,736</b>	<b>\$3,788,656</b>	<b>17,234</b>	<b>2,013,358</b>	<b>\$9,656,176</b>
Port Stephens	Baskets	46	4,600	\$32,062	81	8,900	\$46,636	22	2,800	\$10,332	148	16,300	\$89,030

Estuary Name	Type of Cultivation	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value (\$)	Total Bags	Total Dozens	Total Value (\$)
	Long-line	20	2,000	\$13,940	13	1,400	\$7,336	19	2,500	\$9,225	52	5,900	\$30,501
	Slats	1	121	\$843	0	49	\$257	1	92	\$339	2	262	\$1,440
	Stick	30	3,000	\$20,910	92	10,100	\$52,924	254	33,000	\$121,770	376	46,100	\$195,604
	Tray	2,383	238,307	\$1,661,000	1,604	176,424	\$924,462	1,795	233,316	\$860,936	5,782	648,047	\$3,446,398
<b>Estuary Total</b>		<b>2,480</b>	<b>248,028</b>	<b>\$1,728,755</b>	<b>1,790</b>	<b>196,873</b>	<b>\$1,031,615</b>	<b>2,090</b>	<b>271,708</b>	<b>\$1,002,603</b>	<b>6,360</b>	<b>716,609</b>	<b>\$3,762,972</b>
<b>Brisbane Water</b>	Baskets	16	1,600	\$11,152	34	3,773	\$19,771	226	29,376	\$108,397	276	34,749	\$139,320
	Floating	1	100	\$697	19	2,103	\$11,020	246	31,978	\$117,999	266	34,181	\$129,716
	Long-line	10	1,000	\$6,970	27	3,000	\$15,720	8	1,000	\$3,690	45	5,000	\$26,380
	Slats	3	300	\$2,091	7	720	\$3,773				10	1,020	\$5,864
	Tray	1,053	105,261	\$733,669	1,029	113,174	\$593,032	1,525	198,239	\$731,502	3,606	416,674	\$2,058,203
<b>Estuary Total</b>		<b>1,083</b>	<b>108,261</b>	<b>\$754,579</b>	<b>1,116</b>	<b>122,770</b>	<b>\$643,315</b>	<b>2,005</b>	<b>260,593</b>	<b>\$961,588</b>	<b>4,203</b>	<b>491,624</b>	<b>\$2,359,482</b>
<b>Hawkesbury River</b>	Tray	3	300	\$2,091	4	440	\$2,306	36	4,710	\$17,380	43	5,450	\$21,777
<b>Estuary Total</b>		<b>3</b>	<b>300</b>	<b>\$2,091</b>	<b>4</b>	<b>440</b>	<b>\$2,306</b>	<b>36</b>	<b>4,710</b>	<b>\$17,380</b>	<b>43</b>	<b>5,450</b>	<b>\$21,777</b>
<b>Shoalhaven River</b>	Baskets	10	1,045	\$7,284	20	2,217	\$11,617	16	2,080	\$7,675	47	5,342	\$26,576
	Floating				45	5,000	\$26,200				45	5,000	\$26,200
	Tray	112	11,179	\$77,918	59	6,500	\$34,060	52	6,762	\$24,952	223	24,441	\$136,929
<b>Estuary Total</b>		<b>122</b>	<b>12,224</b>	<b>\$85,201</b>	<b>125</b>	<b>13,717</b>	<b>\$71,877</b>	<b>68</b>	<b>8,842</b>	<b>\$32,627</b>	<b>315</b>	<b>34,783</b>	<b>\$189,705</b>
<b>Crookhaven River</b>	Baskets	139	13,885	\$96,778	81	8,911	\$46,694	108	13,976	\$51,571	327	36,772	\$195,044
	Dredge							36	4,668	\$17,225	36	4,668	\$17,225
	Long-line	52	5,200	\$36,244	50	5,475	\$28,689	55	7,200	\$26,568	157	17,875	\$91,501
	Stick	19	1,926	\$13,424	70	7,750	\$40,610	40	5,250	\$19,373	130	14,926	\$73,407
	Tray	140	13,957	\$97,280	170	18,663	\$97,794	182	23,663	\$87,316	491	56,283	\$282,391
<b>Estuary Total</b>		<b>350</b>	<b>34,968</b>	<b>\$243,727</b>	<b>371</b>	<b>40,799</b>	<b>\$213,787</b>	<b>421</b>	<b>54,757</b>	<b>\$202,053</b>	<b>1,142</b>	<b>130,524</b>	<b>\$659,567</b>
<b>Clyde River</b>	Baskets	63	6,337	\$44,169	144	15,866	\$83,138	205	26,677	\$98,438	413	48,880	\$225,745
	Floating	211	21,062	\$146,802	72	7,949	\$41,653	245	31,816	\$117,401	528	60,827	\$305,856
	Long-line	33	3,332	\$23,224	23	2,566	\$13,446	100	13,000	\$47,970	157	18,898	\$84,640
	Raft/Pontoon	62	6,230	\$43,423	49	5,383	\$28,207	145	18,816	\$69,431	256	30,429	\$141,061
	Stick	266	26,632	\$185,625	359	39,491	\$206,933	486	63,180	\$233,134	1,111	129,303	\$625,692
	Tray	1,397	139,684	\$973,597	1,812	199,288	\$1,044,269	2,099	272,846	\$1,006,802	5,307	611,818	\$3,024,668
<b>Estuary Total</b>		<b>2,033</b>	<b>203,277</b>	<b>\$1,416,841</b>	<b>2,459</b>	<b>270,543</b>	<b>\$1,417,645</b>	<b>3,280</b>	<b>426,335</b>	<b>\$1,573,176</b>	<b>7,772</b>	<b>900,155</b>	<b>\$4,407,662</b>
<b>Tuross Lake</b>	Baskets	44	4,410	\$30,738	133	14,670	\$76,871	132	17,130	\$63,210	309	36,210	\$170,818
	Stick	23	2,250	\$15,683	30	3,354	\$17,575	24	3,059	\$11,288	77	8,663	\$44,545
	Tray	60	6,028	\$42,015	98	10,756	\$56,361	79	10,211	\$37,679	237	26,995	\$136,055
<b>Estuary Total</b>		<b>127</b>	<b>12,688</b>	<b>\$88,435</b>	<b>262</b>	<b>28,780</b>	<b>\$150,807</b>	<b>234</b>	<b>30,400</b>	<b>\$112,176</b>	<b>622</b>	<b>71,868</b>	<b>\$351,419</b>
<b>Wagonga Inlet</b>	Baskets	3	333	\$2,321	13	1,467	\$7,687	17	2,167	\$7,996	33	3,967	\$18,004

Estuary Name	Type of Cultivation	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value (\$)	Total Bags	Total Dozens	Total Value (\$)
	Stick	51	5,133	\$35,777	133	14,667	\$76,855	127	16,467	\$60,763	311	36,267	\$173,395
	Tray	242	24,162	\$168,409	613	67,417	\$353,265	961	124,875	\$460,789	1,815	216,454	\$982,463
<b>Estuary Total</b>		<b>296</b>	<b>29,628</b>	<b>\$206,507</b>	<b>760</b>	<b>83,551</b>	<b>\$437,807</b>	<b>1,104</b>	<b>143,509</b>	<b>\$529,548</b>	<b>2,160</b>	<b>256,688</b>	<b>\$1,173,863</b>
<b>Wapengo Lake</b>	Baskets				16	1,765	\$9,249	8	1,050	\$3,875	24	2,815	\$13,123
	Stick							20	2,650	\$9,779	20	2,650	\$9,779
	Tray	148	14,812	\$103,240	423	46,515	\$243,739	159	20,670	\$76,272	730	81,997	\$423,251
<b>Estuary Total</b>		<b>148</b>	<b>14,812</b>	<b>\$103,240</b>	<b>439</b>	<b>48,280</b>	<b>\$252,987</b>	<b>187</b>	<b>24,370</b>	<b>\$89,925</b>	<b>774</b>	<b>87,462</b>	<b>\$446,152</b>
<b>Merimbula Lake</b>	Floating	4	410	\$2,858	13	1,450	\$7,598	23	2,980	\$10,996	40	4,840	\$21,452
	Long-line	22	2,150	\$14,986	61	6,729	\$35,260	14	1,840	\$6,790	97	10,719	\$57,035
	Stick							50	6,500	\$23,985	50	6,500	\$23,985
	Tray	599	59,935	\$417,747	504	55,432	\$290,464	481	62,481	\$230,555	1,584	177,848	\$938,766
<b>Estuary Total</b>		<b>625</b>	<b>62,495</b>	<b>\$435,590</b>	<b>578</b>	<b>63,611</b>	<b>\$333,322</b>	<b>568</b>	<b>73,801</b>	<b>\$272,326</b>	<b>1,771</b>	<b>199,907</b>	<b>\$1,041,237</b>
<b>Pambula River</b>	Baskets	2	165	\$1,150	10	1,061	\$5,560	14	1,768	\$6,524	25	2,994	\$13,234
	Floating	0	10	\$70	2	187	\$980	2	321	\$1,184	4	518	\$2,234
	Long-line	12	1,180	\$8,225	12	1,290	\$6,760				24	2,470	\$14,984
	Raft/Pontoon	0	44	\$307	3	312	\$1,635	7	917	\$3,384	10	1,273	\$5,325
	Stick	8	833	\$5,806	30	3,333	\$17,465	6	833	\$3,074	45	4,999	\$26,345
	Tray	254	25,368	\$176,815	399	43,934	\$230,214	640	83,243	\$307,167	1,293	152,545	\$714,196
<b>Estuary Total</b>		<b>276</b>	<b>27,600</b>	<b>\$192,372</b>	<b>456</b>	<b>50,117</b>	<b>\$262,613</b>	<b>670</b>	<b>87,082</b>	<b>\$321,333</b>	<b>1,401</b>	<b>164,799</b>	<b>\$776,318</b>
<b>Wonboyn River</b>	Baskets	2	233	\$1,624	3	300	\$1,572	1	133	\$491	6	666	\$3,687
	Floating	210	21,046	\$146,691	134	14,763	\$77,358	24	3,158	\$11,653	369	38,967	\$235,702
	Long-line	2	200	\$1,394	3	300	\$1,572	0	60	\$221	5	560	\$3,187
	Stick	2	233	\$1,624	3	300	\$1,572	1	133	\$491	6	666	\$3,687
	Tray	26	2,644	\$18,429	13	1,404	\$7,357	1	133	\$491	40	4,181	\$26,276
<b>Estuary Total</b>		<b>244</b>	<b>24,356</b>	<b>\$169,761</b>	<b>155</b>	<b>17,067</b>	<b>\$89,431</b>	<b>28</b>	<b>3,617</b>	<b>\$13,347</b>	<b>427</b>	<b>45,040</b>	<b>\$272,539</b>
<b>**Others</b>	Baskets	13	1,333	\$9,291	40	4,444	\$23,287	103	13,333	\$49,199	156	19,110	\$81,776
	Floating	3	304	\$2,119	10	1,109	\$5,811	17	2,217	\$8,181	30	3,630	\$16,111
	Long-line	30	3,000	\$20,910	12	1,292	\$6,770	0	40	\$148	42	4,332	\$27,828
	Raft/Pontoon	383	38,312	\$267,035	233	25,579	\$134,034	31	4,021	\$14,837	647	67,912	\$415,906
	Tray	356	35,566	\$247,895	114	12,497	\$65,484	137	17,825	\$65,774	606	65,888	\$379,154
<b>Others Total</b>		<b>785</b>	<b>78,515</b>	<b>\$547,250</b>	<b>408</b>	<b>44,921</b>	<b>\$235,386</b>	<b>288</b>	<b>37,436</b>	<b>\$138,139</b>	<b>1,481</b>	<b>160,872</b>	<b>\$920,774</b>
<b>TOTALS</b>		<b>16,304</b>	<b>1,630,390</b>	<b>\$11,363,818</b>	<b>17,643</b>	<b>1,940,741</b>	<b>\$10,169,483</b>	<b>23,049</b>	<b>2,996,362</b>	<b>\$11,056,576</b>	<b>56,996</b>	<b>6,567,493</b>	<b>\$32,589,877</b>

\*\*Others not named for confidentiality include: Richmond River, Wooli Wooli River, Bellinger River, Hunter River, Patonga Creek, Botany Bay, Conjola River, Bermagui River & Nelson Lagoon.

**Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.**

**Table 6: Sydney Rock Oyster Sales by Market**

Market Description	Plate Grade			Bistro Grade			Bottle Grade			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Interstate	2,392	239,210	\$1,667,294	3,391	373,016	\$1,954,604	5,965	775,469	\$2,861,481	11,748	1,387,695	\$6,483,378
Local	3,566	356,573	\$2,485,314	4,414	485,551	\$2,544,287	5,009	651,215	\$2,402,983	12,989	1,493,339	\$7,432,584
NSW (Other than Sydney)	1,404	140,391	\$978,525	1,676	184,403	\$966,272	2,927	380,457	\$1,403,886	6,007	705,251	\$3,348,683
Sydney	8,942	894,216	\$6,232,686	8,162	897,771	\$4,704,320	9,148	1,189,221	\$4,388,225	26,252	2,981,208	\$15,325,231
<b>Totals</b>	<b>16,304</b>	<b>1,630,390</b>	<b>\$11,363,818</b>	<b>17,643</b>	<b>1,940,741</b>	<b>\$10,169,483</b>	<b>23,049</b>	<b>2,996,362</b>	<b>\$11,056,576</b>	<b>56,996</b>	<b>6,567,493</b>	<b>\$32,589,877</b>

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

**Table 7: Sydney Rock Oyster Sales by Production Method**

Type of Cultivation	Plate Grade			Bistro Grade			Bottle Grade			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Baskets	449	44,853	\$312,625	784	86,267	\$452,039	1,286	167,195	\$616,950	2,519	298,315	\$1,381,614
Dredge	94	9,350	\$65,170	114	12,546	\$65,741	140	18,203	\$67,169	348	40,099	\$198,080
Floating	475	47,505	\$331,110	325	35,759	\$187,377	696	90,482	\$333,879	1,496	173,746	\$852,366
Long-line	249	24,938	\$173,818	241	26,465	\$138,677	317	41,247	\$152,201	807	92,650	\$464,696
Raft/Pontoon	1,744	174,353	\$1,215,240	1,483	163,170	\$855,011	1,498	194,695	\$718,425	4,725	532,218	\$2,788,676
Slats	4	421	\$2,934	7	769	\$4,030	1	92	\$339	12	1,282	\$7,303
Stick	835	83,493	\$581,946	1,146	126,058	\$660,544	1,617	210,213	\$775,686	3,598	419,764	\$2,018,176
Tray	12,455	1,245,477	\$8,680,975	13,543	1,489,707	\$7,806,065	17,494	2,274,235	\$8,391,927	43,492	5,009,419	\$24,878,967
<b>Totals</b>	<b>16,304</b>	<b>1,630,390</b>	<b>11,363,818</b>	<b>17,643</b>	<b>1,940,741</b>	<b>10,169,483</b>	<b>23,049</b>	<b>2,996,362</b>	<b>11,056,576</b>	<b>56,996</b>	<b>6,567,493</b>	<b>32,589,877</b>

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

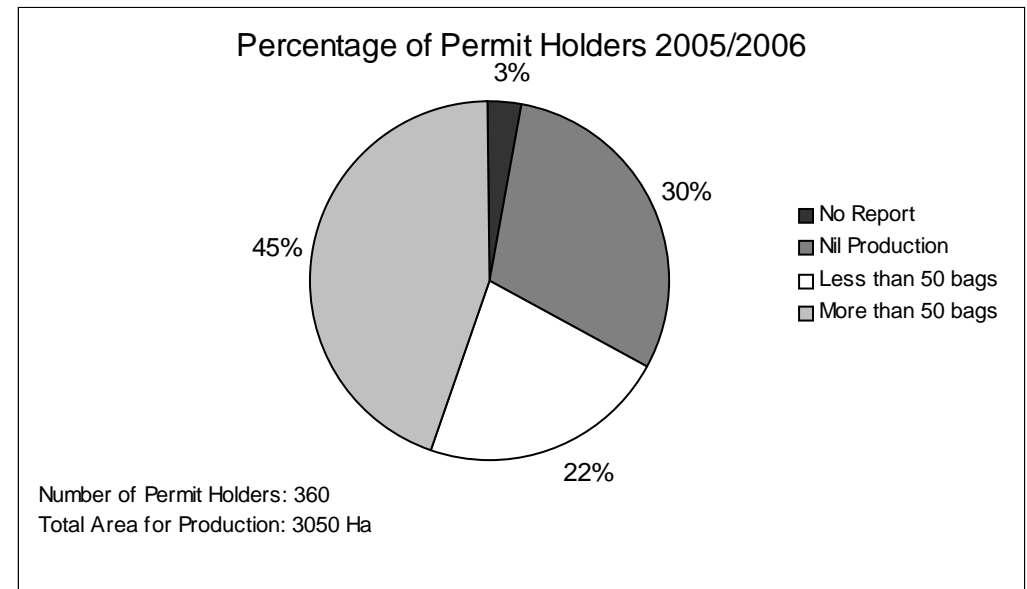
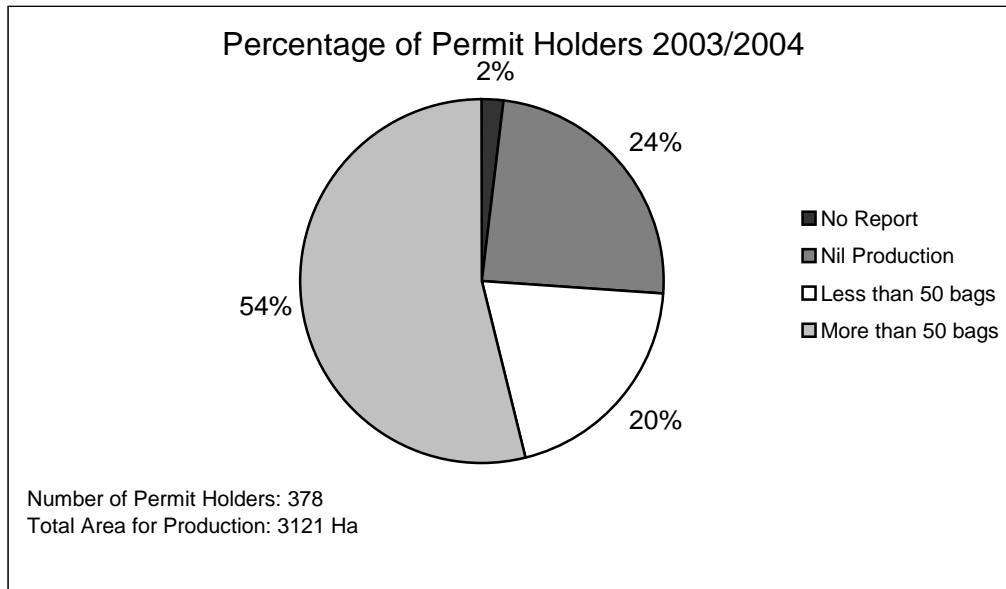
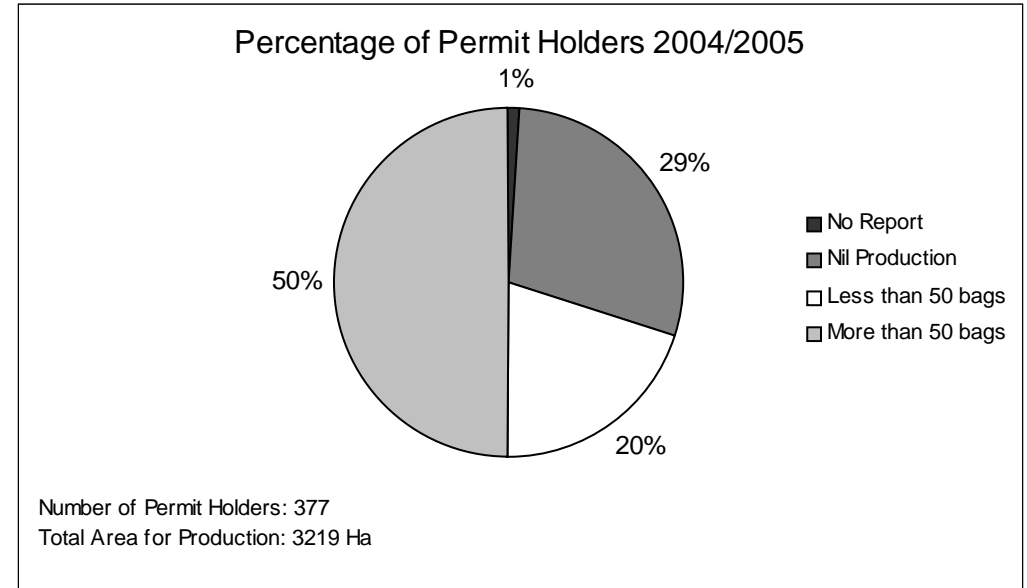
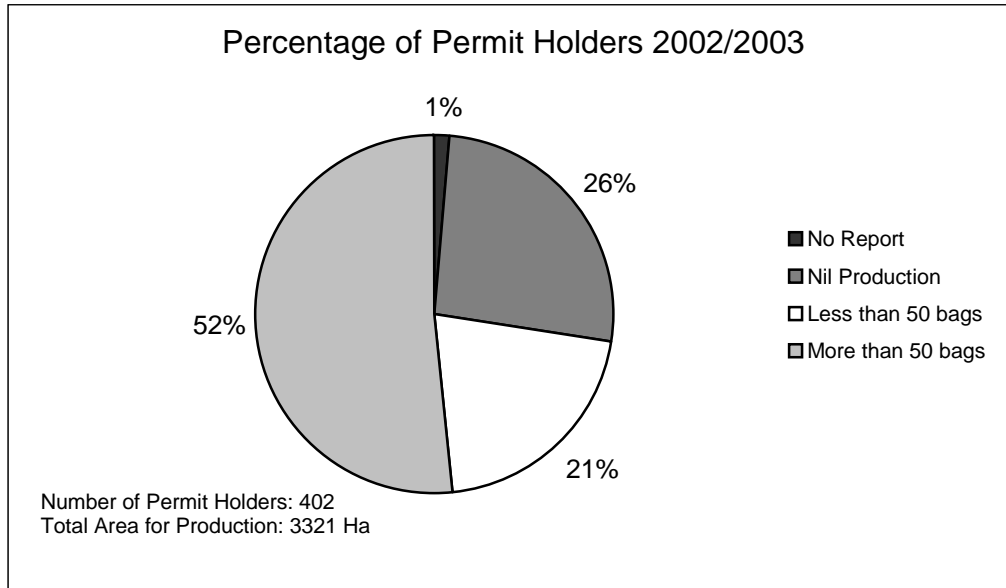
**Table 8: Sydney Rock Oyster Sales by Permit Holders**

Production Range	0 Bags No Prod Report Returned	0 Bags (nil prod)	<=25 Bags	>25 and <=50 Bags	>50 and <= 100 Bags	>100 and <=150 Bags	>150 and <= 250 Bags	>250 and <= 500 Bags	>500 and <=1000 Bags	>1000 Bags	Totals
Percentage of Permit Holders *	3	30	12 (18)	10 (15)	10 (15)	8 (12)	9 (13)	10 (15)	6 (9)	2 (3)	100
Number of Permit Holders	11	107	43	39	39	29	33	39	21	8	360
Quantity Produced (bags)	0	0	405	1,500	2,903	3,697	6,265	13,580	13,994	14,642	56,986
Quantity Produced (dozens)	0	0	46,439	170,261	331,593	419,870	708,253	1,575,596	1,629,901	1,685,580	6,567,493
Percentage of production (dozens)	0	0	0.7	2.6	5.1	6.4	10.8	24.0	24.8	25.6	100
Total Value (\$)			\$245,125	\$874,286	\$1,673,016	\$2,157,442	\$3,679,043	\$7,699,371	\$7,893,206	\$8,368,388	\$32,589,877

\* Number in brackets is the percentage of permit holders excluding nil production and reports not returned.

**Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.**

**Figure B: Percentage of Oyster Permit Holders by Production Range**



**Table 9: Sydney Rock Oyster Sales by Estuary**

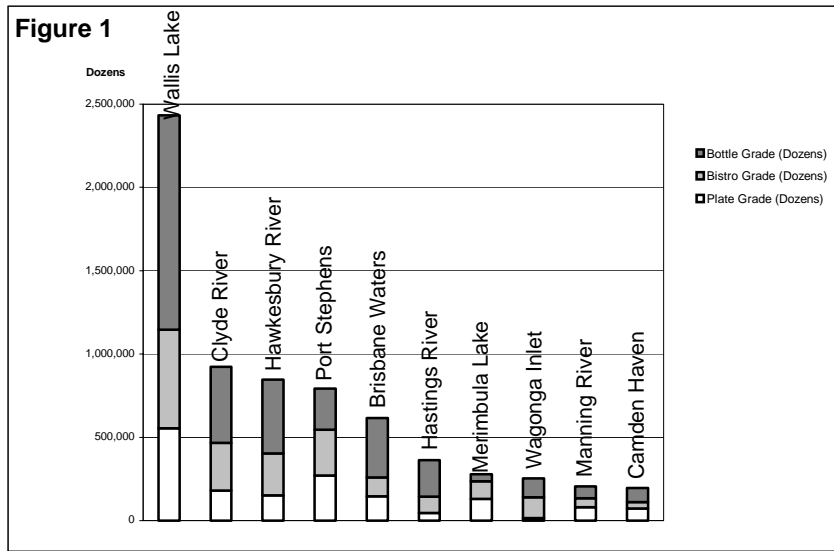
Estuary	Plate Grade			Bistro Grade			Bottle Grade			Total		
	Bags	Dozens	Value(\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Tweed River	294	29,433	\$205,148	225	24,714	\$129,501	53	6,866	\$25,336	572	61,013	\$359,985
Nambucca River	446	44,582	\$310,737	401	44,075	\$230,953	148	19,235	\$70,977	994	107,892	\$612,667
Macleay River	393	39,342	\$274,214	533	58,614	\$307,137	604	78,467	\$289,543	1,530	176,423	\$870,894
Hastings River	652	65,248	\$454,779	884	97,224	\$509,454	1,041	135,296	\$499,242	2,577	297,768	\$1,463,475
Camden Haven	1,105	110,511	\$770,262	652	71,667	\$375,535	1,000	129,995	\$479,682	2,757	312,173	\$1,625,478
Manning River	809	80,873	\$563,685	724	79,605	\$417,130	1,328	172,607	\$636,920	2,860	333,085	\$1,617,735
Wallis Lake	4,032	403,249	\$2,810,646	5,303	583,373	\$3,056,875	7,898	1,026,736	\$3,788,656	17,234	2,013,358	\$9,656,176
Port Stephens	2,480	248,028	\$1,728,755	1,790	196,873	\$1,031,615	2,090	271,708	\$1,002,603	6,360	716,609	\$3,762,972
Brisbane Water	1,083	108,261	\$754,579	1,116	122,770	\$643,315	2,005	260,593	\$961,588	4,203	491,624	\$2,359,482
Hawkesbury River	3	300	\$2,091	4	440	\$2,306	36	4,710	\$17,380	43	5,450	\$21,777
Shoalhaven River	122	12,224	\$85,201	125	13,717	\$71,877	68	8,842	\$32,627	315	34,783	\$189,705
Crookhaven River	350	34,968	\$243,727	371	40,799	\$213,787	421	54,757	\$202,053	1,142	130,524	\$659,567
Clyde River	2,033	203,277	\$1,416,841	2,459	270,543	\$1,417,645	3,280	426,335	\$1,573,176	7,772	900,155	\$4,407,662
Tuross Lake	127	12,688	\$88,435	262	28,780	\$150,807	234	30,400	\$112,176	622	71,868	\$351,419
Wagonga Inlet	296	29,628	\$206,507	760	83,551	\$437,807	1,104	143,509	\$529,548	2,160	256,688	\$1,173,863
Wapengo Lake	148	14,812	\$103,240	439	48,280	\$252,987	187	24,370	\$89,925	774	87,462	\$446,152
Merimbula Lake	625	62,495	\$435,590	578	63,611	\$333,322	568	73,801	\$272,326	1,771	199,907	\$1,041,237
Pambula River	276	27,600	\$192,372	456	50,117	\$262,613	670	87,082	\$321,333	1,401	164,799	\$776,318
Wonboyn River	244	24,356	\$169,761	155	17,067	\$89,431	28	3,617	\$13,347	427	45,040	\$272,539
**Others	785	78,515	\$547,250	408	44,921	\$235,386	288	37,436	\$138,139	1,481	160,872	\$920,775
<b>Totals</b>	<b>16,304</b>	<b>1,630,390</b>	<b>\$11,363,819</b>	<b>17,643</b>	<b>1,940,741</b>	<b>\$10,169,483</b>	<b>23,049</b>	<b>2,996,362</b>	<b>\$11,056,576</b>	<b>56,995</b>	<b>6,567,493</b>	<b>\$32,589,877</b>

\*\*Others not named for confidentiality include: Richmond River, Wooli Wooli River, Bellinger River, Hunter River, Patonga Creek, Botany Bay, Conjola River, Bermagui River & Nelson Lagoon.

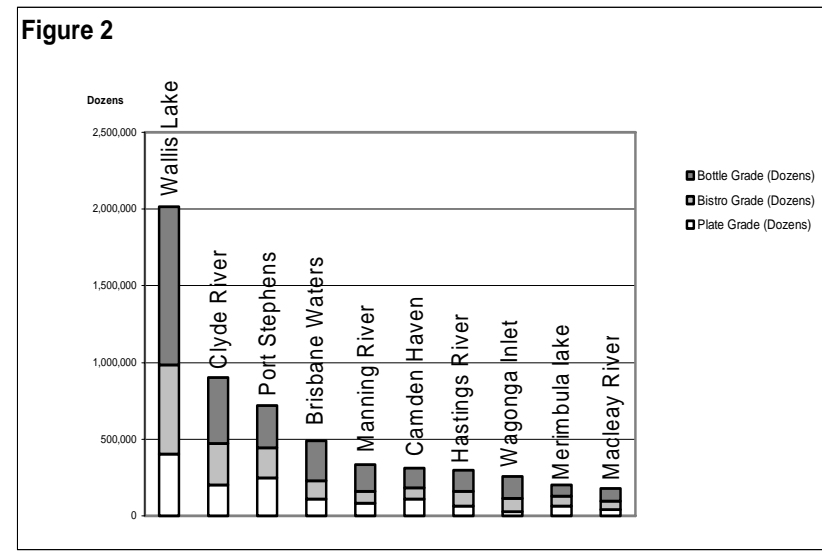
**Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.**

# Figure C: Comparative Graphs: Sydney Rock Oyster (SRO) Production

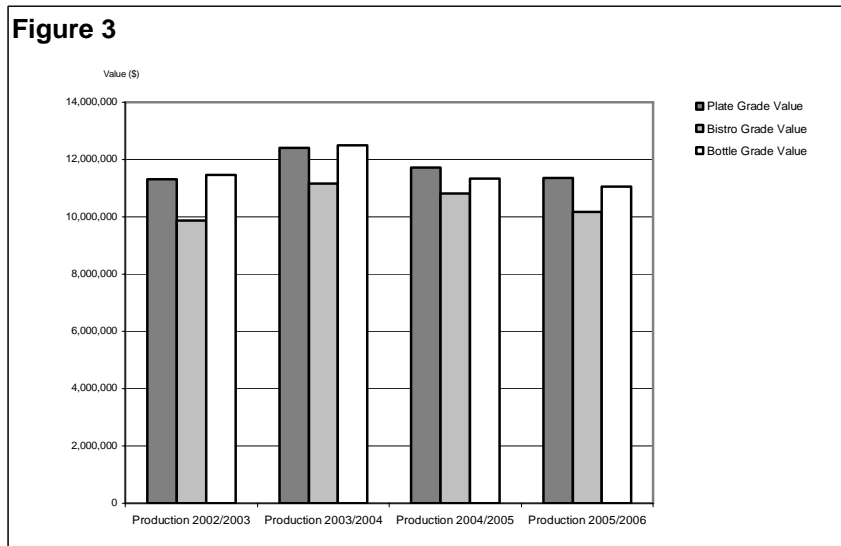
The ten most productive estuaries for the cultivation and sale of SRO in 2004/2005



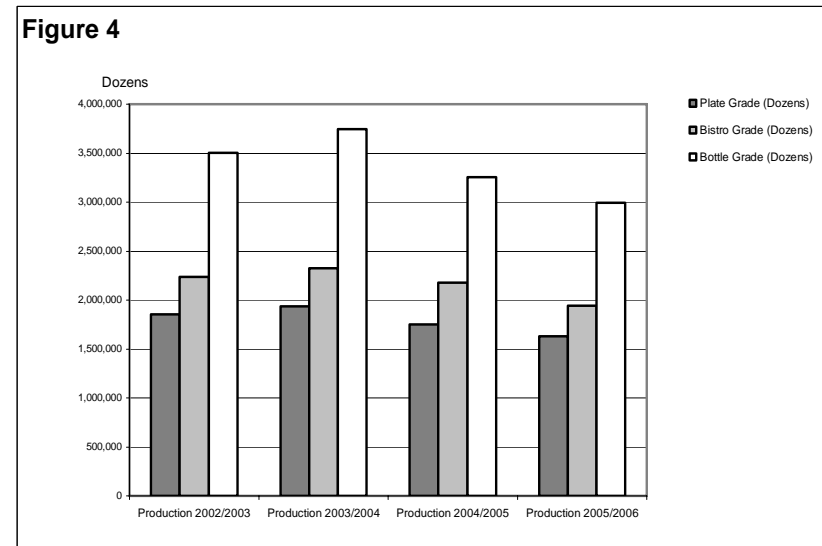
The ten most productive estuaries for cultivation and sale of SRO in 2005/2006



Value of plate, bistro and bottle/cocktail grade SRO production in 2002/2003, 2003/2004 and 2004/2005 compared to 2005/2006



The quantity of plate, bistro and bottle/cocktail grade SRO production in 2002/2003, 2003/2004 and 2004/2005 compared to 2005/2006





**Table 10: Pacific Oyster Sales from Port Stephens**

	Grade 1			Grade 2			Grade 3			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
<b>Total</b>	<b>1,342</b>	<b>101,989</b>	<b>\$609,894</b>	<b>869</b>	<b>104,280</b>	<b>\$504,715</b>	<b>525</b>	<b>78,774</b>	<b>\$288,313</b>	<b>2,734</b>	<b>285,043</b>	<b>\$1,402,922</b>

**Table 11: Pacific Oyster Sales by Production Method**

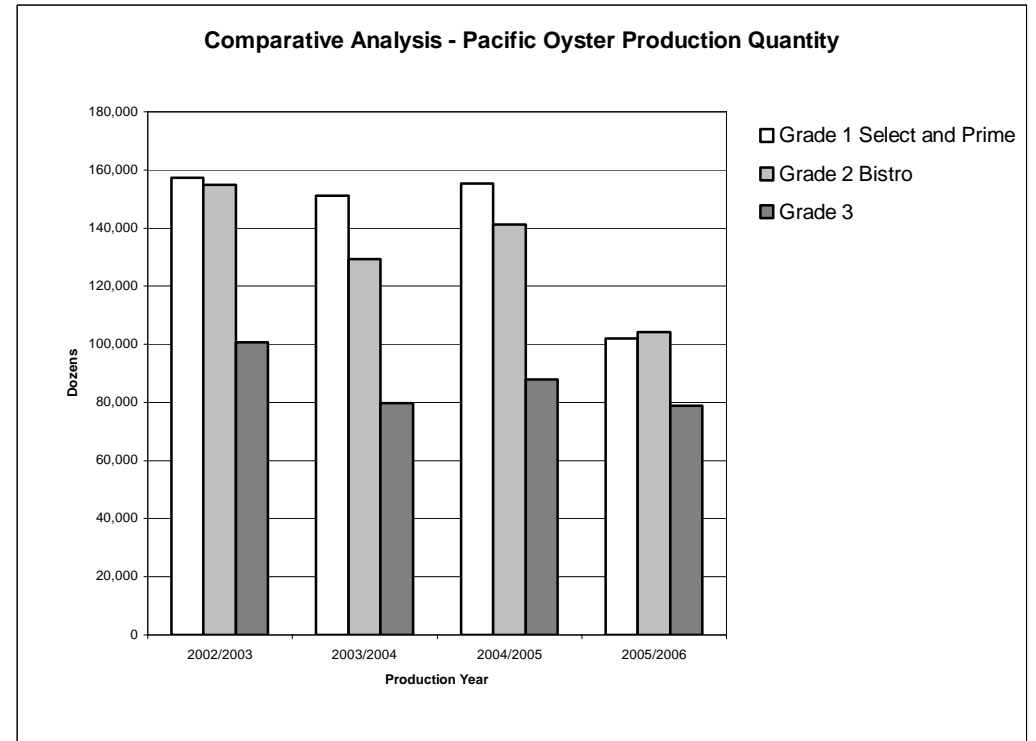
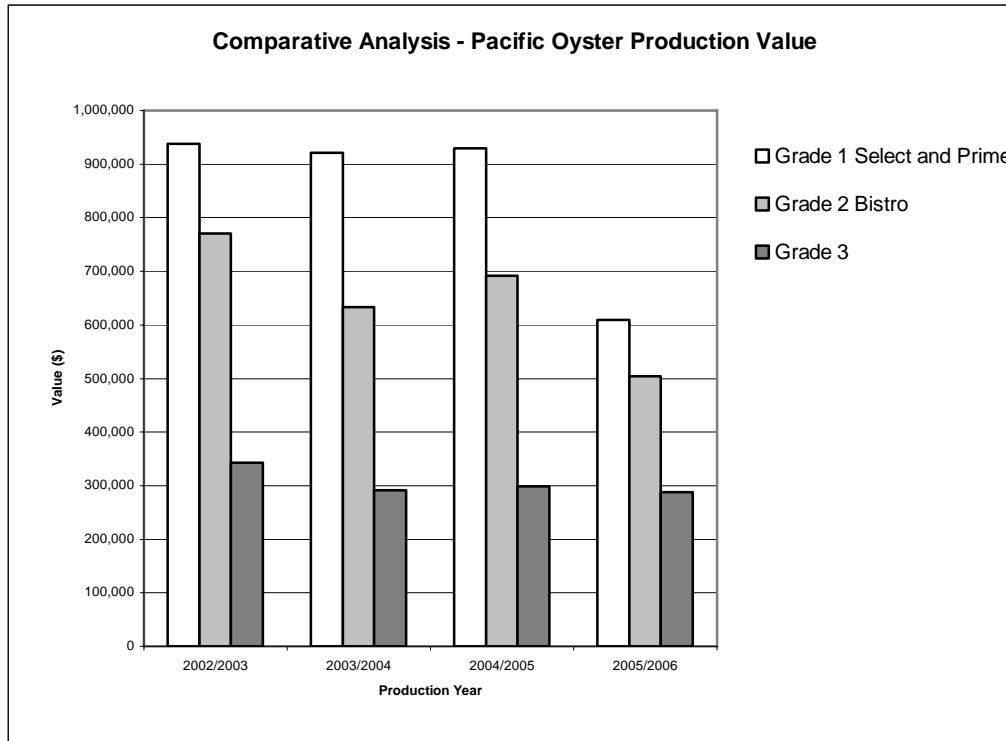
Type of Cultivation	Grade 1			Grade 2			Grade 3			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
<b>Baskets/Tumblers</b>	73	5,583	\$33,386	29	3,438	\$16,640	13	1,998	\$7,313	115	11,019	\$57,339
<b>Long-line</b>	685	52,075	\$311,409	386	46,367	\$224,416	98	14,759	\$54,018	1,169	113,201	\$589,843
<b>Stick</b>				10	1,200	\$5,808	10	1,500	\$5,490	20	2,700	\$11,298
<b>Tray</b>	583	44,331	\$265,099	444	53,275	\$257,851	403	60,517	\$221,492	1,430	158,123	\$744,442
<b>Total</b>	<b>1,342</b>	<b>101,989</b>	<b>\$609,894</b>	<b>869</b>	<b>104,280</b>	<b>\$504,715</b>	<b>525</b>	<b>78,774</b>	<b>\$288,313</b>	<b>2,734</b>	<b>285,043</b>	<b>\$1,402,922</b>

**Table 12: Pacific Oyster Sales by Market**

Market Description	Grade 1			Grade 2			Grade 3			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
<b>Interstate</b>	502	38,177	\$228,298	424	50,866	\$246,191	281	42,128	\$154,188	1,207	131,171	\$628,677
<b>Local</b>	358	27,176	\$162,512	213	25,548	\$123,652	144	21,578	\$78,975	715	74,302	\$365,139
<b>NSW (Other than Sydney)</b>	191	14,520	\$86,830	64	7,620	\$36,881	42	6,300	\$23,058	297	28,440	\$146,769
<b>Sydney</b>	291	22,116	\$132,254	169	20,246	\$97,991	58	8,768	\$32,091	517	51,130	\$262,337
<b>Total</b>	<b>1,342</b>	<b>101,989</b>	<b>\$609,894</b>	<b>869</b>	<b>104,280</b>	<b>\$504,715</b>	<b>525</b>	<b>78,774</b>	<b>\$288,313</b>	<b>2,736</b>	<b>285,043</b>	<b>\$1,402,922</b>

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

**Figure D: Comparative Graphs – Pacific Oyster Production**



**Table 13: Spat Production Value by Cultivation Method**

Type of Cultivation	Large Spat (\$)	Medium Spat (\$)	Small Spat (\$)	Total Value (\$)
Hatchery Single Seed	\$15,000	\$51,990	\$182,041	\$249,031
Wild Caught Single Seed	\$754,082	\$491,554	\$291,153	\$1,536,789
Stick	\$38,408	\$12,600	\$57,702	\$108,710
<b>Total Value</b>	<b>\$807,490</b>	<b>\$556,144</b>	<b>\$530,896</b>	<b>\$1,894,530</b>

Note: Values include figures for Sydney rock oysters, Pacific oysters and flat oyster spat.

## **Appendix 1. Oyster Price and Weight Conversions**

For the purposes of this report the following estimates have been developed on data supplied by permit holders and market sources:

### **Sydney Rock Oysters**

1 bag of Plate Grade Oysters = 100 dozen @ a Farm Gate Price of \$697.00 per bag.

1 bag of Bistro Grade Oysters = 110 dozen @ a Farm Gate Price of \$576.40 per bag.

1 bag of Bottle/Cocktail Grade Oysters = 130 dozen @ a Farm Gate Price of \$479.70 per bag.

### **Pacific Oysters**

1 bag of Grade 1 (Select and Prime) Pacific Oysters = 76 dozen @ a Farm Gate Price of \$454.48 per bag.

1 bag of Grade 2 (Bistro) Pacific Oysters = 120 dozen @ a Farm Gate Price of \$580.80 per bag.

1 bag of Grade 3 (Mini) Pacific Oysters = 150 dozen @ a Farm Gate Price of \$549.00 per bag.

### **Weight Conversions**

An approximate conversion to production by weight for Sydney rock oysters can be made at the rate of 14 bags to the tonne.